DO NOT ENTER

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A detector array for use in association with an imaging device, said detector array comprising:

at least one M x N array of scintillator elements where "M" and "N" are independently selectable and where "M" and "N" are at least one;

a mechanism for maintaining a relative position of each said scintillator elements in said at least one M x N array of scintillator elements with respect to each other of said scintillator elements;

an array of photodetectors [at least one photodetector], said at least one M x N array of scintillator elements being optically coupled to said array of photodetectors [at least one photodetector]; and

a continuous light guide disposed between said at least one M x N array of scintillator elements and said array of photodetectors [at least one photodetector], said continuous light guide defining no discontinuities including cuts and slots, whereby time and expense required to fabricate said continuous light guide is minimized.

Claim 2 (original): The detector array of Claim 1 wherein each of said scintillator elements defines a top surface, a bottom surface, and a plurality of side surfaces, and wherein each of said plurality of side surfaces is optimized to a selected degree to define a selected light collection efficiency and to control light sharing between said scintillator elements.

Claim 3 (original): The detector array of Claim 1 further comprising a plurality of reflective light partitions interposed between selected of said scintillator elements, at least one of said plurality of reflective light partitions defining a first height, and at least one of said plurality of reflective light partitions defining a second height.